

### **AMENDMENTS TO THE CLAIMS**

1. (Currently amended) A ~~computer-implemented~~ method for ~~auctioning~~  
conducting an auction of at least two types of items, each of the types of items  
including plural items, the method comprising:
  - a. communicating a price vector, including a price for each of the types  
of items subject to the auction, to a plurality of bidders,
  - b. receiving, ~~in a computer,~~ bids from plural bidders wherein at least  
some of said bids identify quantities of items of different types,
  - c. determining, based on the received bids, whether the auction should  
continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving, ~~in the computer,~~ further bids from plural bidders in response  
to the revised price vector and, in response to the further bids,
  - f. crediting at least one item of a particular type with a particular bidder  
at a price in a closed interval between the price contained in the  
revised price vector.
2. (Original) A method as recited in claim 1 wherein at least two different types  
of items are related to each other.
3. (Original) A method as recited in claim 1 wherein each type of item is related  
to at least one different type of item.
4. (Original) A method as recited in claim 1 where the price in the closed  
interval is the price contained in the revised price vector.

5. (Original) A method as recited in claim 1 wherein the price in the closed interval is the price in the price vector.
6. (Original) A method as recited in claim 1 wherein at least one item of each selected type is credited to a bidder where a type is selected if the cumulative sum of quantities of that type has decreased in bids by a subset of bidders including all bidders except the bidder to be credited.
7. (Original) A method as recited in claim 1 wherein the crediting to a bidder occurs when at least one of those items, the bids for which exhibited, in the bids of bidders other than the bidder, a cumulative decrease in the further bids relative to the bids.
8. (Original) A method as recited in claim 1 wherein each type of item is the subject of a credit where, for that item, the bids exhibited, in the bids of bidders other than the bidder to be credited, a cumulative decrease in the further bids relative to the bids.
9. (Original) A method as recited in claim 1 which a further bid from a bidder is limited so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.
10. (Original) A method as recited in claim 9 wherein the limitation is applied to a group, less than all, of the types of items.
11. (Original) A method as recited in claim 1 in which a further bid from a bidder is limited so that the number of items of any type contained in a bid is less than or equal to the number of those items contained in a bid submitted in the past.

12. (Currently amended) A ~~computer implemented~~ method for ~~auctioning~~  
conducting an auction of at least two types of items, each of the types of items  
including plural items, the method comprising:
- a. communicating a price vector, including a price for each of the types  
of items subject to the auction, to a plurality of bidders,
  - b. receiving, ~~in a computer~~, bids from plural bidders wherein at least  
some of said bids identify quantities of items of different types,
  - c. determining, based on the received bids, whether the auction should  
continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving, ~~in the computer~~, further bids from plural bidders in response  
to the revised price vector and, in response to the further bids, and
  - f. selecting a particular bidder and determining, for a selected one of the  
types of items, whether the sum of the bids of other bidders is different  
in the further bids than in the received bids, and if it is, crediting the  
bidder with a number of the selected type of items equal to the change  
in the sum of the bids of other bidders at a price in a closed interval  
between the price contained in the price vector and the price contained  
in the revised price vector.
13. (Original) A method as recited in claim 12 wherein the determination is  
effected for all other types of items.
14. (Original) A method as recited in claim 13 wherein the determination is  
effected for all other bidders.
15. (Original) A method as recited in claim 12 wherein the determination is  
repeatedly effected on receipt of bids subsequent to the further bids.

16. (Original) A method as recited in claim 12 wherein the price in the closed interval is the price contained in the revised vector.
17. (Original) A method as recited in claim 12 wherein the price in the closed interval is the price contained in the price vector.
18. (Currently amended) A ~~computer implemented~~ method for ~~auctioning~~ conducting an auction of at least two types of items, each type of the items including plural items, the method comprising:
  - a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving, ~~in a computer system,~~ bids from plural bidders wherein at least some of said bids identify quantities of items of different types,
  - c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving, ~~in the computer system,~~ further bids from plural bidders in response to the revised price vector and, in response to the further bids, and
  - f. crediting, to a bidder at least one of those items, the bids for which exhibited, in the bids of bidders other than the bidder, a cumulative decrease in the further bids relative to the bids.
19. (Original) A method as recited in claim 18 wherein the credit is at a price in a closed interval between the price contained in the price vector and the price contained in the revised price vector.

20. (Original) A method as recited in claim 18 wherein at least two different types of items are related to each other.
21. (Original) A method as recited in claim 18 wherein each type of item is related to at least one different type of item.
22. (Original) A method as recited in claim 19 where the price in the closed interval is the price contained in the revised price vector.
23. (Original) A method as recited in claim 19 wherein the price in the closed interval is the price in the price vector.
24. (Currently amended) A ~~computer implemented~~ method for ~~auctioning~~ conducting an auction of at least two types of items, each of the types of items including plural items, the method comprising:
  - a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving, ~~in a computer system~~, bids from plural bidders wherein at least some of said bids identify quantities of different types of items,
  - c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving, ~~in the computer system~~, further bids from plural bidders in response to the revised price vector and, in response to the further bids,
  - f. crediting, to a selected bidder at least one of those items, the bids for which exhibited, in bids of bidders other than the selected bidder, a cumulative decrease in the further bids relative to the bids to establish an item credit and,

- g. reducing the item credit in the event bids, by bidders other than the selected bidder, show a cumulative increase in bids for that item after the item credit is established.
25. (Original) A method as recited in claim 24 wherein the credit is at a price in a closed interval between the price contained in the price vector and the price contained in the revised price vector.
26. (Original) A method as recited in claim 24 wherein at least two different types of items are related to each other.
27. (Original) A method as recited in claim 24 wherein each type of item is related to at least one different type of item.
28. (Original) A method as recited in claim 25 where the price in the closed interval is the price contained in the revised price vector.
29. (Original) A method as recited in claim 25 wherein the price in the closed interval is the price in the price vector.
30. (Currently amended) A ~~computer implemented~~ method for ~~auctioning~~ conducting an auction of at least two types of items, each type of the items including plural items, the method comprising:
- a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving, ~~in a computer system,~~ bids from plural bidders wherein at least some of said bids identify quantities of items of different types,
  - c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector, and

- e. limiting any further bid from a bidder so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.

- 31. (Currently amended) A method as recited in claim 30 wherein the bid is limited so the sum of the number of items of different types which is less than or equal to the sum of the number of items of different types contained in a bid submitted in the past is ~~limited to the items from a group of types of items, where the group of types of items is less than all types of items.~~
- 32. (Currently amended) A method as recited in claim 30 wherein the bid is limited so the number of items which is less than or equal to the number of items contained in a bid submitted in the past is comprises items from a single type of the items.
- 33. (Original) A method as recited in claim 30 wherein the bid is limited so the number of items which is less than or equal to the number of items contained in a bid submitted in the past applied separately to items from each type of the items.
- 34. (Original) A method as recited in claim 30 wherein the limiting is implemented by rejecting any bid in which the sum of the number of items contained in the bid is not less than or equal to the sum of the number of items contained in a bid submitted in the past.
- 35. (Original) A method as recited in claim 34 wherein bidders use terminals to manifest a bid and the terminal rejects any bid in which the sum of the number of items contained in the bid is not less than or equal to the sum of the number of items contained in a bid submitted in the past.
- 36. (Original) A method as recited in claim 30 which includes the further step of informing a bidder that a bid has been rejected as not limited so that the sum

of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.

37. (Original) A method as recited in claim 36 wherein rejected bids are ignored in any determinations subsequent to the rejection.

38. (Currently amended) A method as recited in claim 34 wherein ~~the~~ a computer system rejects any bid in which the sum of the number of items contained in the bid is not less than or equal to the sum of the number of items contained in a bid submitted in the past.

39. (Original) A method as recited in claim 38 which includes the further step of informing a bidder that a bid has been rejected as not limited so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.

40. (Original) A method as recited in claim 39 wherein rejected bids are ignored in any determinations subsequent to the rejection.

41. - 44. (cancelled)

45. (Newly added) A computer system comprising one or more computers for conducting an auction of at least two types of items, each of the types of items including plural items, the system for:

- a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
- b. receiving bids from plural bidders wherein at least some of said bids identify quantities of items of different types,



- c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving further bids from plural bidders in response to the revised price vector and, in response to the further bids,
  - f. crediting at least one item of a particular type with a particular bidder at a price in a closed interval between the price contained in the price vector and the price contained in the revised price vector.
46. (Newly added) The system of claim 45 wherein at least two different types of items are related to each other.
47. (Newly added) The system of claim 45 wherein each type of item is related to at least one different type of item.
48. (Newly added) The system of claim 45 where the price in the closed interval is the price contained in the revised price vector.
49. (Newly added) The system of claim 45 wherein the price in the closed interval is the price in the price vector.
50. (Newly added) The system as recited in claim 45 wherein at least one item of each selected type is credited to a bidder where a type is selected if the cumulative sum of quantities of that type has decreased in bids by a subset of bidders including all bidders except the bidder to be credited.
51. (Newly added) The system as recited in claim 45 wherein the crediting to a bidder occurs when at least one of those items, the bids for which exhibited, in

the bids of bidders other than the bidder, a cumulative decrease in the further bids relative to the bids.

52. (Newly added) The system of claim 45 wherein each type of item is the subject of a credit where, for that item, the bids exhibited, in the bids of bidders other than the bidder to be credited, a cumulative decrease in the further bids relative to the bids.
53. (Newly added) The system of claim 45 which further includes limiting means for limiting a further bid from a bidder so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.
54. (Newly added) The system of claim 53 wherein the limitation is applied to a group, less than all, of the types of items.
55. (Newly added) The system of claim 45 which further includes limiting means for limiting a further bid from a bidder so that the number of items of any type contained in a bid is less than or equal to the number of those items contained in a bid submitted in the past.
56. (Newly added) A computer system comprising one or more computers for conducting an auction of at least two types of items, each of the types of items including plural items, the system for:
- a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving bids from plural bidders wherein at least some of said bids identify quantities of items of different types,

- c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving further bids from plural bidders in response to the revised price vector and, in response to the further bids, and
  - f. selecting a particular bidder and determining, for a selected one of the types of items, whether the sum of the bids of other bidders is different in the further bids than in the received bids, and if it is, crediting the bidder with a number of the selected type of items equal to the change in the sum of the bids of other bidders at a price in a closed interval between the price contained in the price vector and the price contained in the revised price vector.
57. (Newly added) The computer system of claim 56 wherein the determination is effected for all other types of items.
58. (Newly added) The computer system of claim 57 wherein the determination is effected for all other bidders.
59. (Newly added) The computer system of claim 56 wherein the determination is repeatedly effected on receipt of bids subsequent to the further bids.
60. (Newly added) The computer system of claim 56 wherein the price in the closed interval is the price contained in the revised vector.

61. (Newly added) The computer system of claim 56 wherein the price in the closed interval is the price contained in the price vector.
62. (Newly added) A computer system comprising one or more computers for conducting an auction of at least two types of items, each of the types of items including plural items, the system for:
- a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving bids from plural bidders wherein at least some of said bids identify quantities of items of different types,
  - c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving further bids from plural bidders in response to the revised price vector and, in response to the further bids, and
  - f. crediting, to a bidder at least one of those items, the bids for which exhibited, in the bids of bidders other than the bidder, a cumulative decrease in the further bids relative to the bids.
63. (Newly added) The computer system of claim 62 wherein the credit is at a price in a closed interval between the price contained in the price vector and the price contained in the revised price vector.

64. (Newly added) The computer system of claim 62 wherein at least two different types of items are related to each other.
65. (Newly added) The computer system of claim 62 wherein each type of item is related to at least one different type of item.
66. (Newly added) The computer system of claim 63 where the price in the closed interval is the price contained in the revised price vector.
67. (Newly added) The computer system as recited in claim 63 wherein the price in the closed interval is the price in the price vector.
68. (Newly added) A computer system comprising one or more computers for conducting an auction of at least two types of items, each of the types of items including plural items, the system for:
  - a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving bids from plural bidders wherein at least some of said bids identify quantities of different types of items,
  - c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
  - d. sending to one or more bidders a revised price vector,
  - e. receiving further bids from plural bidders in response to the revised price vector and, in response to the further bids,
  - f. crediting, to a selected bidder at least one of those items, the bids for which exhibited, in bids of bidders other than the selected bidder, a

cumulative decrease in the further bids relative to the bids to establish an item credit, and

- g. reducing the item credit in the event bids, by bidders other than the selected bidder, show a cumulative increase in bids for that item after the item credit is established.

- 69. (Newly added) The computer system of claim 68 wherein the credit is at a price in a closed interval between the price contained in the price vector and the price contained in the revised price vector.
- 70. (Newly added) The computer system of claim 68 wherein at least two different types of items are related to each other.
- 71. (Newly added) The computer system of claim 68 wherein each type of item is related to at least one different type of item.
- 72. (Newly added) The computer system of claim 69 where the price in the closed interval is the price contained in the revised price vector.
- 73. (Newly added) The computer system of claim 69 wherein the price in the closed interval is the price in the price vector.
- 74. (Newly added) A computer system comprising one or more computers for conducting an auction of at least two types of items, each of the types of items including plural items, the system for:
  - a. communicating a price vector, including a price for each of the types of items subject to the auction, to a plurality of bidders,
  - b. receiving bids from plural bidders wherein at least some of said bids identify quantities of items of different types,

- c. determining, based on the received bids, whether the auction should continue, and in the event that the auction will continue,
- d. sending to one or more bidders a revised price vector, and
- e. limiting any further bid from a bidder so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.

75. (Newly added) The computer system of claim 74 in which bids are limited so that the sum of the number of items of different types which is less than or equal to the sum of the number of items of different types contained in a bid submitted in the past is limited to the items form a group of types of items, where the group of types of items is less than all types of items.

76. (Newly added) The computer system of claim 74 in which bids are limited so that the number of items, which is less than or equal to the number of items contained in a bid submitted in the past, comprise items from a single type of the items.

77. (Newly added) The computer system of claim 74 in which bids are limited so that the number of items which is less than or equal to the number of items contained in a bid submitted in the past, is applied separately to items from each type of the items.

78. (Newly added) The computer system as recited in claim 74 in which the limiting is implemented by rejecting any bid in which the sum of the number of items contained in the bid is not less than or equal to the sum of the number of items contained in a bid submitted in the past.

79. (Newly added) The computer system of claim 78 which further includes terminals, used by bidders, to manifest a bid and a terminal used by a bidder

rejects any bid in which the sum of the number of items contained in the bid is not less than or equal to the sum of the number of items contained in a bid submitted in the past.

80. (Newly added) The computer system of claim 74 which includes means for informing a bidder that a bid has been rejected as not limited so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.
81. (Newly added) The computer system of claim 80 wherein rejected bids are ignored in any determinations subsequent to the rejection.
82. (Newly added) The computer system of claim 78 wherein the computer system rejects any bid in which the sum of the number of items contained in the bid is not less than or equal to the sum of the number of items contained in a bid submitted in the past.
83. (Newly added) The computer system of claim 82 which includes means for informing a bidder that a bid has been rejected as not limited so that the sum of the number of items contained in a bid is less than or equal to the sum of the number of items contained in a bid submitted in the past.
84. (Newly added) The computer system of claim 83 wherein rejected bids are ignored in any determinations subsequent to the rejection.